## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 18 September 2003 (18.09.2003)

(10) International Publication Number WO 2003/075772 A3

(51) International Patent Classification?: G01N 1/34

A61B 10/00.

(21) International Application Number:

PCT/CA2003/000311

(22) International Filing Date: 6 March 2003 (06.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/364,214 11 March 2002 (11.03.2002) 60/393.309 3 July 2002 (03.07.2002) US 60/421,001 25 October 2002 (25.10.2002) US 60/421.510 28 October 2002 (28.10.2002) US 60/427,833 21 November 2002 (21.11.2002) US

(71) Applicant and

- (72) Inventor: PAWLISZYN, Janusz, B. [CA/CA]: 383 Dunvegan Drive, Waterloo, Ontario N2K 1W7 (CA).
- (74) Agents: MARSMAN, Kathleen, E. et al.: Borden Ladner Gervais LLP. World Exchange Plaza, 100 Queen Street. Suite 1100, Ottawa, Ontario KIP 1J9 (CA).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, 11, GB, GD, GE, GH, GM, HR. HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC. LK, LR, LS, ET, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GII, GM. KE. LS. MW. MZ. SD, SL, SZ, TZ. UG, ZM, ZW). Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM). European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES. FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

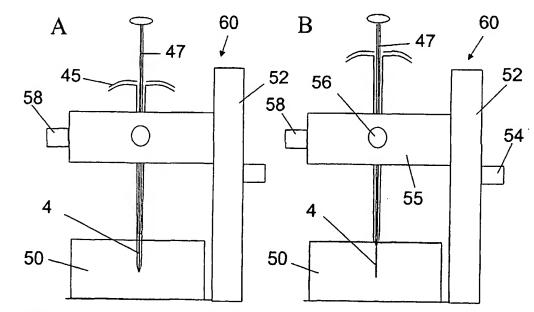
## Published:

with international search report

(88) Date of publication of the international search report: 5 February 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MICRO-DEVICES AND ANALYTICAL PROCEDURES FOR INVESTIGATION OF BIOLOGICAL SYSTEMS



(57) Abstract: Fibres with an extraction phase coated thereon in combination with a positioning device are described to perform adsorption of components of interest from an animal or animal tissue for the investigation of living systems. A number of interfaces to analytical instrumentation are disclosed including mass spectrometry, LC/MS, MALDI and CE as well as direct spectroscopic on-fibre measurement.